

HISTORIC PROPERTY INVENTORY FORM

IDENTIFICATION SECTION

Field Site No. 119-N OAHP No. Date Recorded 10-Feb-95
Site Name Historic Air Sample Monitor
Common Stack Sampler
Field Recorder Kristine M. Bowen, Evaluator: Darby Stapp
Owner's Name U.S. Department of Energy, Richland Operations Office
Address P.O. Box 550
City/State/Zip Code Richland, WA 99352

Status

- ☒ Survey/Inventory
☐ National Register
☐ State Register
☐ Determined Eligible
☐ Determined Not Eligible
☐ Other (HABS, HAER, NHL)
☐ Local Designation

Photography

Photography Neg. No. Roll 8, Frame 4
(Roll No. & Frame No.)
View of South Side
Date 10-Feb-95

Classification ☐ District ☐ Site ☐ Building ☒ Structure ☐ Object
Distric Status ☒ NR ☐ SR ☐ LR ☐ INV
Contributing ☒ Non-Contributing ☐
District/Thematic Nomination Name Hanford Site Manhattan Project and Cold War Era Historic District

Description Section

Materials & Features/Structural Types

Building Type Industrial
Plan Rectangular
Structural System Steel Frame
No. of Stories 1

Roof Type

- ☐ Gable ☐ Hip
☐ Flat ☐ Pyramidal
☐ Monitor ☐ Other (specify)
☐ Gambrel
☒ Shed

Cladding (exterior Wall Surfaces)

- ☐ Log
☐ Horizontal Wood Siding
Rustic/Drop ☐
Clapboard ☐
☐ Wood Shingle
☐ Board and Batten
☐ Vertical Board
☐ Asbestos/Asphalt
☐ Brick
☐ Stone
☐ Stucco
☐ Terra Cotta
☐ Concrete/Concrete Block
☐ Vinyl/Aluminum Siding
☒ Metal (specify) Galvanized Sheet Metal
☐ Other (specify)

Roof Material

- ☐ Wood Shingle
☐ Wood Shake
☐ Composition
☐ Slate
☐ Tar/Built-up
☐ Tile
☒ Metal (specify Sheet Metal)
☐ Other (specify)
☐ Not visible

Foundation

- ☐ Log ☐ Concrete
☐ Post & Pier ☐ Block
☐ Stone ☒ Poured
☐ Brick ☐ Other (specify)
☐ Not visible

Integrity

(Include detailed description in

Description of Physical Appearance)

| | Intact | Slight | Moderate | Extensive |
|------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Changes to plan | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Changes to windows | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Changes to original cladding | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Changes to interior | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (specify) <u></u> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

State of Washington, Department of Community Development
Office of Archaeology and Historic Preservation
111 21st Avenue Southwest, Post Office Box 48343
Olympia, Washington 98504-8343 (206)753-4011

LOCATION SECTION

Address 100-N Reactor Area, Building 119-N
City/Town/County/Zip Code Richland, WA/Benton County/99352
Twp. 14N Range 26E Section 28 1/4 Section NE 1/4 1/4 Sec SW
Tax No./Parcel No. Acreage
Quadrangle or map name Coyote Rapids 7.5 min. series
UTM References Zone 11 Easting 303974 Northing 5172485
Plat/Block/Lot
Supplemental Map(s) 100-N Area Buildings



High Styles/Forms (Check one or more of the following)

- | | |
|---|---|
| <input type="checkbox"/> Greek Revival | <input type="checkbox"/> Spanish Colonial Revival/Mediterranean |
| <input type="checkbox"/> Gothic Revival | <input type="checkbox"/> Tudor Revival |
| <input type="checkbox"/> Italianate | <input type="checkbox"/> Craftsman/Arts & Crafts |
| <input type="checkbox"/> Second Empire | <input type="checkbox"/> Bungalow |
| <input type="checkbox"/> Romanesque Revival | <input type="checkbox"/> Prairie Style |
| <input type="checkbox"/> Stick Style | <input type="checkbox"/> Art Deco/Art Moderne |
| <input type="checkbox"/> Queen Anne | <input type="checkbox"/> Rustic Style |
| <input type="checkbox"/> Shingle Style | <input type="checkbox"/> International Style |
| <input type="checkbox"/> Colonial Revival | <input type="checkbox"/> Northwest Style |
| <input type="checkbox"/> Beaux Arts/Neoclassical | <input type="checkbox"/> Commercial Vernacular |
| <input type="checkbox"/> Chicago/Commercial Style | <input type="checkbox"/> Residential Vernacular (see below) |
| <input type="checkbox"/> American Foursquare | <input checked="" type="checkbox"/> Other (specify) <u></u> |
| <input type="checkbox"/> Mission Revival | <input type="checkbox"/> Industrial Vernacular |

Vernacular House Types

- | | |
|---|--|
| <input type="checkbox"/> Gable Front | <input type="checkbox"/> Cross Gable |
| <input type="checkbox"/> Gable Front and Wing | <input type="checkbox"/> Pyramidal/Hipped |
| <input type="checkbox"/> Side Gable | <input type="checkbox"/> Other (specify) <u></u> |

NARRATIVE SECTION

Study Unit Themes (check one or more of the following)

☐ Agriculture
☐ Architecture/Landscape Architecture
☐ Arts
☐ Commerce
☐ Communications
☐ Community Planning/Development

☐ Conservation
☐ Education
☐ Entertainment/Recreation
☐ Ethnic Heritage (specify) _____
☐ Health/Medicine
☐ Manufacturing/Industry
☐ Military

☐ Politics/Government/Law
☐ Religion
☐ Science & Engineering
☐ Social Movements/Organizations
☐ Transportation
☒ Other (specify) Manhattan Project & Cold War Era
☒ **Study Unit Sub-Theme(s) (specify)**
Cold War/Nuclear Fuel Production
Waste Management (Air)

Statement of Significance

Date of Construction 1963 Architect/Engineer/Builder General Electric

☒ In the opinion of the surveyor, this property appears to meet the criteria of the National Register of Historic Places.

☒ In the opinion of the surveyor, this property is located in a potential historic district (National and/or local).

The 119-N structure served a secondary role in the ventilation subsystem that operated in support of the N Reactor production system. The 119-N Building housed the electrical instrumentation controls for taking air emission samples from the 116-N Ventilation Stack. Monitoring probes were located in the stack. In the mid 1980's, the samples were monitored in the 119-NA Air Sampling Monitor Annex structure. The property is not associated with an important person (Criterion B), does not possess any distinctive architectural features or methods of construction (Criterion C), and does not qualify under Criterion D as the principal source of information. However, the 119-N structure qualifies under Criterion A due to its association with the Cold War production of plutonium at N Reactor, and its contribution to Reactor Operations, specifically, the waste management (air) system. Therefore, it is the conclusion of the U.S. Department of Energy that the 119-N structure is eligible under Criterion A for inclusion on the National Register of Historic Places as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

Description of Physical Appearance

The 119-N Building is a rectangular, one-story, single-room, steel frame structure with galvanized metal exterior siding, a sheet metal roof, and a poured concrete foundation. This structure measures 5 ft by 6.5 ft (2 m by 2 m); 33 ft² (4 m²). The 119-N Building has undergone no significant changes and is still in use.

The N Reactor UTM coordinates are as follows: Northeast corner - 303974E, 5172485N; southeast corner - 303974E, 5171639N; southwest corner - 303069E, 5171639N; northwest corner - 303069E, 5172485N.

Major Bibliographic References

Bechtel Hanford, Inc. 1994. *"Pre-Existing" Conditions Survey of Hanford Site Facilities to be Managed by Bechtel Hanford, Inc.* BHI-00221, Rev. 00, Phase II.
United States Department of Energy. 1994. *RCRA Facility Investigation/Corrective Measures Study Work Plan for the 100-NR-2 Operable Unit, Hanford Site, Richland, Washington*. DOE/RL-91-46, Rev. 0.

100N Ventilation Stack Monitor System & Electrical Elem., Drawing No. H-1-36332, 1987.